Lytecel Recessed Fluorescent **LCS6G20LW228**

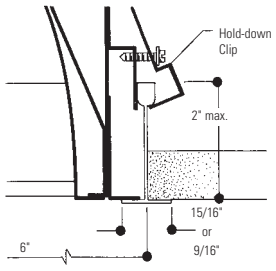
For Continuous Row Mounting, 6" wide x 48", 20 Cell (1 Row) Parabolic Louver, Air Return/Static, 2 Lamp T5, IES RP1 For VDT Areas

Features

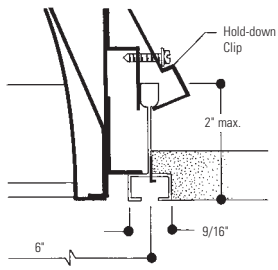
- 48" long louver gives an uninterrupted louver appearance when row mounted. Ideal for continuous row applications.
- 52.0% efficient (2 lamp) semi-specular louver.
- 55.3% efficient (2 lamp) specular louver.
- 1.3 spacing mounting ratio semi-specular louver
- 1.5 spacing mounting ratio specular louver.
- Semi-specular or specular, low iridescence, pre-anodized aluminum louver.
- Vertical grain on cross blades eliminates reflected lamp image.
- Spring loaded latches (self centering).
- Louver has protective dust guard.
- Only 5-1/2" deep body.
- Black housing exterior for cooler ballast operating temperature.
- UL-Listed twin knockout access plate.
- Meets NYC Code requirements.
- Construction to meet Chicago Plenum Code is available.
- Optional DALI ballast accepts digital dimming commands from computers, scene controllers and automatic control devices.

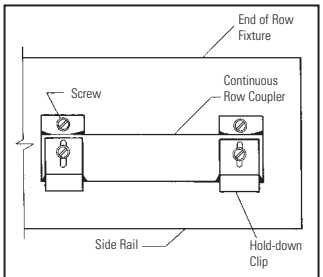
Mounting Methods

G **exposed T-grid ceiling.**

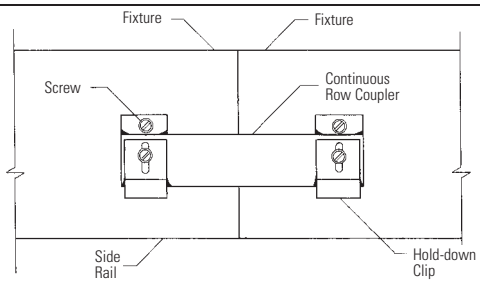


T **exposed slot T-grid ceiling.**





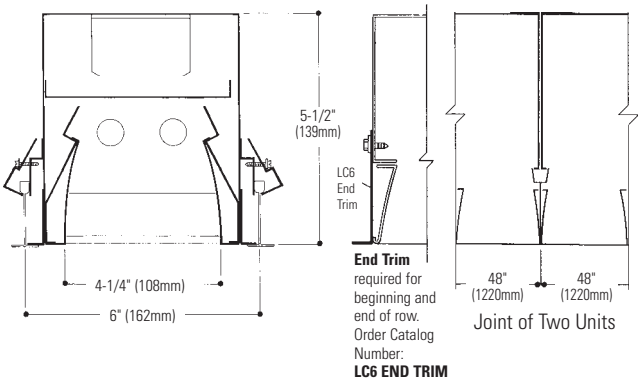
coupler/clamp (LC85 CLAMP)
(Order for end of row)



continuous row coupler locks fixtures together for a continuous line of light without cell configuration interruption (supplied with fixture)

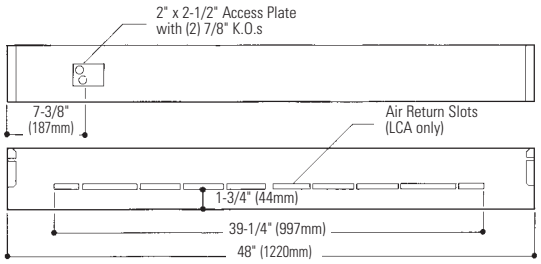
NOTE:
If product is to be mounted individually, use LI series, Folio G07-34.

Dimensions



End Trim required for beginning and end of row. Order Catalog Number: **LC6 END TRIM**

Joint of Two Units



Job Information	**Type:**
Job Name:	
Cat. No.:	
Lamp(s):	
Volts/Ballast:	

Lightolier a Genlyte company www.lightolier.com
Technical Information: (978) 657-7600 • Fax (978) 658-0595
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LIGHTOLIER®

Lytecel Recessed Fluorescent **LCS6G20LW228**

For Continuous Row Mounting, 6" wide x 48", 20 Cell (1 Row) Parabolic Louver, Air Return/Static, 2 Lamp T5, IES RP1 For VDT Areas

Model No. LCS6G20LW228120PG

LER = FP - 43.3 IW - 66.0 BF - 1.0
Comparative yearly lighting energy cost per 1000 lumens = $5.54
Report Number: G1206007
Catalog Number: LCS6G20LW228120PG
Lamp: F28 T5
Luminaire: 6" wide Troffer with semi-specular louver.
Ballast: Advance ICN-2S28
Report is based on 2750 Lumens per lamp.
Efficiency: 52.0%

CIE Type-Direct-Indirect		
Plane:	0-Deg	90-Deg
Spacing Criteria:	1.2	1.3
Shielding Angles:	90	90
Plane:	0-Deg	90-Deg
Luminous Length:	47.943	5.816

CANDELA DISTRIBUTION

	0.0	45.0	90.0	FLUX
0	1373	1373	1373	
5	1300	1383	1363	133
15	1278	1420	1516	393
25	1188	1382	1403	614
35	1023	1139	1216	711
45	829	868	861	668
55	488	348	137	288
65	26	36	31	37
75	3	5	9	6
85	1	2	3	2
90	1	2	1	

COEFFICIENTS OF UTILIZATION – ZONAL CAVITY METHOD. EFFECTIVE FLOOR CAVITY REFLECTANCE 0.20

RC	80			50			30		
RW	70	50	30	50	30	10	50	30	10
1	58	56	55	53	52	51	51	50	49
2	54	51	48	48	46	45	47	45	44
3	50	46	43	44	41	39	43	41	39
4	47	42	38	40	37	35	39	36	34
5	44	38	34	37	33	31	36	33	31
6	41	35	31	33	30	28	33	30	27
7	38	32	28	31	27	25	30	27	25
8	35	29	25	28	25	23	28	25	22
9	33	27	23	26	23	20	26	23	20
10	31	25	21	24	21	19	24	21	19

TYPICAL V.C.P.'s

Room Size	Mounting Height Lengthwise Crosswise: Luminaires 0 Deg Plane				Luminaires 90 Deg Plane			
	8.5	10	8.5	10	8.5	10	8.5	10
30x30	87	84	80	71	93	89	85	76
40x40	87	84	81	78	94	91	89	80
60x30	87	84	81	77	93	89	87	78
60x60	87	83	81	79	94	91	90	83
100x100	88	83	81	79	94	92	91	86

LUMINANCE DATA IN CANDELA/SQ. METER

AVERAGE IN DEG.	AVERAGE 0-DEG.	AVERAGE 45-DEG.	AVERAGE 90-DEG.
45	6515.	6821.	6766.
55	4728.	3371.	1327.
65	342.	473.	408.
75	64.	107.	193.
85	64.	128.	191.

ZONAL LUMEN SUMMARY

ZONE	LUMENS	% LAMP	% FIXT
0- 30	1144	20.8	40.0
0- 40	1856	33.7	64.9
0- 60	2812	51.1	98.4
0- 90	2858	52.0	100.0
90-180	0	0.0	0.0
0-180	2858	52.0	100.0

Model No. LCS6G20PW228120PG

LER = FP - 45.8 IW - 66.0 BF - 1.0
Comparative yearly lighting energy cost per 1000 lumens = $5.24
Report Number: G1206008
Catalog Number: LCS6G20PW228120PG
Lamps: F28 T5
Luminaire: 6" wide Troffer with specular louver.
Ballast: Advance ICN-2S28
Report is based on 2750 Lumens per lamp.
Efficiency: 55.3%

CIE Type-Direct-Indirect		
Plane:	0-Deg	90-Deg
Spacing Criteria:	1.3	1.5
Shielding Angles:	90	90
Plane:	0-Deg	90-Deg
Luminous Length:	47.943	5.816

CANDELA DISTRIBUTION

	0.0	45.0	90.0	FLUX
0	1348	1347	1348	
5	1337	1348	1377	134
15	1278	1470	1522	414
25	1184	1483	1448	649
35	1079	1221	1262	756
45	893	963	980	737
55	586	377	113	314
65	1	35	29	27
75	1	4	9	5
85	1	2	4	2
90	0	1	1	

COEFFICIENTS OF UTILIZATION – ZONAL CAVITY METHOD. EFFECTIVE FLOOR CAVITY REFLECTANCE 0.20

RC	80			50			30		
RW	70	50	30	50	30	10	50	30	10
1	62	60	58	56	55	54	54	53	52
2	58	54	51	51	49	47	50	48	46
3	54	49	46	47	44	42	45	43	41
4	50	45	41	43	39	37	41	39	36
5	46	40	36	39	35	33	38	35	32
6	43	37	33	35	32	29	35	31	29
7	40	34	30	33	29	26	32	29	26
8	38	31	27	30	26	24	29	26	24
9	35	29	24	28	24	22	27	24	21
10	33	26	22	26	22	20	25	22	20

TYPICAL V.C.P.'s

Room Size	Mounting Height Lengthwise Crosswise: Luminaires 0 Deg Plane				Luminaires 90 Deg Plane			
	8.5	10	8.5	10	8.5	10	8.5	10
30x30	86	76	73	71	93	88	85	70
40x40	86	76	75	74	94	90	87	79
60x30	86	76	75	76	93	88	85	77
60x60	86	77	76	76	94	91	89	82
100x100	86	77	76	76	93	92	91	85

LUMINANCE DATA IN CANDELA/SQ. METER

AVERAGE IN DEG.	AVERAGE 0-DEG.	AVERAGE 45-DEG.	AVERAGE 90-DEG.
45	7018.	7568.	7701.
55	5677.	3652.	1095.
65	13.	460.	381.
75	21.	86.	193.
85	64.	128.	255.

ZONAL LUMEN SUMMARY

ZONE	LUMENS	% LAMP	% FIXT
0- 30	1198	21.8	39.4
0- 40	1954	35.5	64.3
0- 60	3004	54.6	98.8
0- 90	3039	55.3	100.0
90-180	0	0.0	0.0
0-180	3039	55.3	100.0

Ordering Information

Explanation of Catalog Number. Example: LCS6G20LW228120PG

		6		20		W	2				

- **LC:** Lytecel 6" Continuous Louver Appearance
- **Body Style:** **A**=Air Return **S**=Static
- **Fixture Width**
- **Ceiling Type:** **G** = 9/16" or 15/16"Grid **T** = Slot Grid
- **Number of Cells:** 1 row of 20 cells
- **Louver Finish:** **L**=Low Iridescence Semi-specular **P**=Low Iridescence Specular
- **Reflector:** **W**=White
- **Lamp Quantity:** (By others) **2**=2 Lamp
- **Lamp Fixture Length:** **28**=T5 **54**=T5HO (Nominal 48")
- **Voltage:** 120, 277 or **UNV**=120-277
- **Ballast Type:**

	<20THD	<10THD
2 Lamp 28w Elec. T5	–	**PI†**
2 Lamp 28w Elec. T5	–	**PG††**
2 Lamp 54w Elec. T5	–	**PG††**

†Instant Start (120, 277 or **UNV**)
††Program Rapid Start (**UNV** only)
DA=DALI digital addressable dimming.

- **Options:** Add appropriate suffix to catalog no, ie: (GLR)

LC Standard Lytecel

LN For NYC Code – Local 3 Manufactured

Options/Accessories

Access Plate: Top Wiring access plate is shipped with fixture as standard. When access plates are required in advance for wiring convenience, specify separately.
Order Catalog Number: **ACP5 CSP**.
Coupler/Clamp: (Set of 2) Required for beginning of rows.
Order Catalog Number: **LC85 CLAMP** (for G or T type)
End Trim: Required at beginning and end of rows. For every row order (2).
Order Catalog Number: **LC6 END TRIM**.
Electrical/Wiring Options: Consult factory.
EM Pack or **Dimming Ballast**: Consult factory.
Fusing: Internal fast-blow fusing. Suffix: **GLR**.
Internal slow-blow fusing. Suffix: **GMF**.
Chicago Plenum: Suffix: **CP**.

Specifications

Performance: In an installation of 2 lamp 28W semi-specular luminaires in a room cavity ratio of 1, reflectance 80% ceiling, 50% wall, 20% floor, the C.U. shall not be less than .56 with a spacing to mounting ratio of 1.3 perpendicular to the lamps. To meet IES RP-1 for VDT areas the VCP (visual comfort probability) shall not be less than 87 either crosswise or lengthwise and the candela value between 55° and 90° in the 0° to 90° planes shall not exceed 2858. Candelas at Nadir (0°) not to exceed 1373.

Specifications (continued)

Air Handling–(LCA only) Side air passages for air return.
Materials: Chassis parts are die-formed cold rolled steel.
Louver: Pre-anodized aluminum (Coilzak® or equal).
Finish: Louver—specular or semi-specular low iridescence pre-anodized reflector sheet. **Reflector:** White baked polyester enamel. **Chassis exterior**—black baked polyester enamel.
Electrical: Thermally protected class "P" ballast C.B.M. approved, non PCB. If K.O. is within 3" of ballast, use wire suitable for at least 90°.
Labels: I.B.E.W./UL and ULc Listed.
This product may have a mercury containing lamp. Manage in accord with Disposal Laws. See: www.lamprecycle.org

Job Information **Type:**

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